

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) In a method for positioning a measuring device (20) which emits and receives optical radiation to measure wear in the lining of a container (10), said method involving fixing coordinate systems (26, 36) for the measuring device (20) and the container (10) by combining the coordinate systems, and individually determining the positions of a plurality of specific fixing marks (41, 43, 45) in the coordinate system (26) of the measuring device (20), wherein each of said plurality of fixing marks (41, 43, 45) is substantially regular in shape, a method for determining the position of the plurality of fixing marks (41, 43, 45) comprising the steps of:

(a) deflecting the optical radiation beam across a first one of the plurality of fixing marks (41) in first and second intersecting directions and determining the position of the center and at least two linear edges thereof and creating a first temporary coordinate system (47) based on the position of the center and the directions of the at least two edges thereof,

(b) searching, based on the first temporary coordinate system (47), at least two further ones of the plurality of fixing marks (43, 45) and determining the position of the centers thereof, and

(c) defining, based on the center positions of said plurality of fixing marks (41, 43, 45) the coordinate system (36) of the container (10), wherein the wear in the lining of the container (10) in the coordinate system (36) of the container (10) is determined, and

(d) outputting the wear in the lining for use in renewing the lining.

2. (Original) The method of claim 1, wherein the first fixing mark (41) is substantially rectangular in shape.

3. (Previously Presented) The method according to claims 1 or 2 wherein the first fixing mark (41) is larger in size than the at least two further fixing marks (43, 45).

4. (Previously Presented) The method of claim 1, wherein the center of the fixing marks (41, 43, 45) is calculated from the deflecting of the optical radiation beam across each of the fixing marks in first and second intersecting directions.
5. (Previously Presented) The method according to claim 4, wherein the deflecting of the optical radiation beam across each of the fixing marks is detected by one of distance measuring and reflection intensity measuring.
6. (Original) The method according to claim 5, wherein the fixing marks (41, 43, 45) comprise a retro-reflective surface.